

ABSTRACT OF THE DISCLOSURE

The present invention relates to a miniature connector with on-board electronics for a thermocouple, characterized in that it incorporates:

- two connection means (20, 21) for connecting a thermocouple (1) to a printed circuit (4) connecting the elements of the on-board electronics;

- three connection posts (230, 231, 232) from the printed circuits (4) to a connector supply and signal transfer cable (3) formed by the on-board electronics:

- means (24) for measuring the ambient temperature in the connector disposed between the two connection means (20, 21) of the thermocouple;

- means (25, 26, 27, 29) for amplifying the signal supplied by the thermocouple (1) and scaling of the signal supplied by the ambient temperature measurement means (24), these means (25, 26, 27, 29) also performing the summation of these two signals as well as the linearization of the signal resulting from this summation.